

## SEQUENCE LISTING

<110> Balint, Robert F.  
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KaloBios, Inc.

<120> Interaction-Activated Proteins

<130> 021167-000700US

<140> US 09/526,106

<141> 2000-03-15

<150> US 60/124,339

<151> 1999-03-15

<150> US 60/135,926

<151> 1999-05-25

<150> US 60/175,968

<151> 2000-01-13

<160> 26

<170> PatentIn Ver. 2.1

<210> 1

<211> 789

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(789)

<223> TEM-1 beta-lactamase

<400> 1

cac cca gaa acg ctg gtg aaa gta aaa gat gct gaa gat cag ttg ggt	48
His Pro Glu Thr Leu Val Lys Val Lys Asp Ala Glu Asp Gln Leu Gly	
1 5 10 15	
gca cga gtg ggt tac atc gaa ctg gat ctc aac agc ggt aag atc ctt	96
Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys Ile Leu	
20 25 30	
gag agt ttt cgc ccc gaa gaa cgt ttt cca atg atg agc act ttt aaa	144
Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr Phe Lys	
35 40 45	
gtt ctg cta tgt ggc gcg gta tta tcc cgt att gac gcc ggg caa gag	192
Val Leu Leu Cys Gly Ala Val Leu Ser Arg Ile Asp Ala Gly Gln Glu	
50 55 60	
caa ctc ggt cgc cgc ata cac tat tct cag aat gac ttg gtt gag tac	240
Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val Glu Tyr	
65 70 75 80	
tca cca gtc aca gaa aag cat ctt acg gat ggc atg aca gta aga gaa	288
Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val Arg Glu	
85 90 95	

tta tgc agt gct gcc ata acc atg agt gat aac act gcg gcc aac tta 336  
 Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala Asn Leu  
 100 105 110

ctt ctg aca acg atc gga gga ccg aag gag cta acc gct ttt ttg cac 384  
 Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr Ala Phe Leu His  
 115 120 125

aac atg ggg gat cat gta act cgc ctt gat cgt tgg gaa ccg gag ctg 432  
 Asn Met Gly Asp His Val Thr Arg Leu Asp Arg Trp Glu Pro Glu Leu  
 130 135 140

aat gaa gcc ata cca aac gac gag cgt gac acc acg atg cct gta gca 480  
 Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr Met Pro Val Ala  
 145 150 155 160

atg gca aca acg ttg cgc aaa cta tta act ggc gaa cta ctt act cta 528  
 Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Glu Leu Leu Thr Leu  
 165 170 175

gct tcc cgg caa caa tta ata gac tgg atg gag gcg gat aaa gtt gca 576  
 Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala Asp Lys Val Ala  
 180 185 190

gga cca ctt ctg cgc tcg gcc ctt ccg gct ggc tgg ttt att gct gat 624  
 Gly Pro Leu Leu Arg Ser Ala Leu Pro Ala Gly Trp Phe Ile Ala Asp  
 195 200 205

aaa tct gga gcc ggt gag cgt ggg tct cgc ggt atc att gca gca ctg 672  
 Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile Ile Ala Ala Leu  
 210 215 220

ggg cca gat ggt aag ccc tcc cgt atc gta gtt atc tac acg acg ggg 720  
 Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile Tyr Thr Thr Gly  
 225 230 235 240

agt cag gca act atg gat gaa cga aat aga cag atc gct gag ata ggt 768  
 Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile Ala Glu Ile Gly  
 245 250 255

gcc tca ctg att aag cat tgg 789  
 Ala Ser Leu Ile Lys His Trp  
 260

<210> 2

<211> 263

<212> PRT

<213> Escherichia coli

<220>

<223> TEM-1 beta-lactamase

<400> 2

His Pro Glu Thr Leu Val Lys Val Lys Asp Ala Glu Asp Gln Leu Gly  
 1 5 10 15  
 Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys Ile Leu  
 20 25 30

Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr Phe Lys  
           35                                  40                                  45  
 Val Leu Leu Cys Gly Ala Val Leu Ser Arg Ile Asp Ala Gly Gln Glu  
           50                                  55                                  60  
 Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val Glu Tyr  
           65                                  70                                  75                                  80  
 Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val Arg Glu  
                                   85                                  90                                  95  
 Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala Asn Leu  
                                   100                                  105                                  110  
 Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr Ala Phe Leu His  
                                   115                                  120                                  125  
 Asn Met Gly Asp His Val Thr Arg Leu Asp Arg Trp Glu Pro Glu Leu  
           130                                  135                                  140  
 Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr Met Pro Val Ala  
   145                                  150                                  155                                  160  
 Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Glu Leu Leu Thr Leu  
                                   165                                  170                                  175  
 Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala Asp Lys Val Ala  
                                   180                                  185                                  190  
 Gly Pro Leu Leu Arg Ser Ala Leu Pro Ala Gly Trp Phe Ile Ala Asp  
           195                                  200                                  205  
 Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile Ile Ala Ala Leu  
           210                                  215                                  220  
 Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile Tyr Thr Thr Gly  
   225                                  230                                  235                                  240  
 Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile Ala Glu Ile Gly  
                                   245                                  250                                  255  
 Ala Ser Leu Ile Lys His Trp  
           260

<210> 3

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:linker

<400> 3

Gly Gly Gly Gly Ser  
       1                                  5

Ala Trp Val Glu Arg Leu Phe Gly Tyr Asp Trp Ala Gln Gln Thr Ile  
20 25 30

Gly Cys Ser Asp Ala Ala Val Phe Arg Leu Ser Ala Gln Gly Arg Pro  
           35                          40                          45  
 Val Leu Phe Val Lys Thr Asp Leu Ser Gly Ala Leu Asn Glu Leu Gln  
           50                          55                          60  
 Asp Glu Ala Ala Arg Leu Ser Trp Leu Ala Thr Thr Gly Val Pro Cys  
           65                          70                          75                          80  
 Ala Ala Val Leu Asp Val Val Thr Glu Ala Gly Arg Asp Trp Leu Leu  
                           85                          90                          95  
 Leu Gly Glu Val Pro Gly Gln Asp Leu Leu Ser Ser His Leu Ala Pro  
                   100                          105                          110  
 Ala Glu Lys Val Ser Ile Met Ala Asp Ala Met Arg Arg Leu His Thr  
                   115                          120                          125  
 Leu Asp Pro Ala Thr Cys Pro Phe Asp His Gln Ala Lys His Arg Ile  
           130                          135                          140  
 Glu Arg Ala Arg Thr Arg Met Glu Ala Gly Leu Val Asp Gln Asp Asp  
   145                          150                          155                          160  
 Leu Asp Glu Glu His Gln Gly Leu Ala Pro Ala Glu Leu Phe Ala Arg  
                           165                          170                          175  
 Leu Lys Ala Arg Met Pro Asp Gly Glu Asp Leu Val Val Thr His Gly  
                   180                          185                          190  
 Asp Ala Cys Leu Pro Asn Ile Met Val Glu Asn Gly Arg Phe Ser Gly  
           195                          200                          205  
 Phe Ile Asp Cys Gly Arg Leu Gly Val Ala Asp Arg Tyr Gln Asp Ile  
           210                          215                          220  
 Ala Leu Ala Thr Arg Asp Ile Ala Glu Glu Leu Gly Gly Glu Trp Ala  
   225                          230                          235                          240  
 Asp Arg Phe Leu Val Leu Tyr Gly Ile Ala Ala Pro Asp Ser Gln Arg  
                   245                          250                          255  
 Ile Ala Phe Tyr Arg Leu Leu Asp Glu Phe Phe  
           260                          265

<210> 8

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
Trxpep

<400> 8

Cys Gly Pro Lys Glu Leu Arg Ile Gly Gly Arg Pro Arg Arg Pro Gly  
   1                          5                          10                          15

Pro Cys

<210> 9  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 9  
 Cys Gly Pro Glu Gly Gln Gly Gly Val Ala Val Gly Gly Val Gly Gly  
     1                    5                    10                    15

Pro Cys

<210> 10  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 10  
 Cys Gly Pro Ala Lys Arg Ala Asp Val Glu Phe Ser Leu Glu Pro Gly  
     1                    5                    10                    15

<210> 11  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 11  
 Ala Lys Pro Cys Gly Gln Gln Ser Ile His Leu Gly Gly Val Phe Glu  
     1                    5                    10                    15

Leu Gln Pro Gly Ala  
                     20

<210> 12  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 12  
 Cys Gly Pro Lys Ser Ala Gly Lys Gly Arg Lys Asp Arg Arg Lys Gly  
     1                    5                    10                    15

Pro Cys

<210> 13  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 13  
 Cys Gly Pro Pro Arg Thr Arg Val Asn His Gln Gly Gln Lys Thr Arg  
           1                  5                  10                  15

Gly Pro Cys

<210> 14  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 14  
 Cys Gly Pro Ala Gly Ala Ile Arg His Glu His Arg Gln Gly Leu Gly  
           1                  5                  10                  15

Pro Cys

<210> 15  
 <211> 23  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 15  
 Leu Val Thr Leu Glu Asn Gly Lys Gln Leu Thr Val Lys Arg Gln Gly  
           1                  5                  10                  15

Leu Tyr Tyr Ile Tyr Ala Gln  
                   20

<210> 16  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 16

Cys Gly Pro Asp Thr Gly Leu Glu Thr Asp Ala Ala Asp Ala Ser Gly  
 1 5 10 15

Pro Cys

<210> 17

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 17

Cys Gly Pro Arg Arg Val Arg Glu Thr Val Ala Val Glu Ser Ser Gly  
 1 5 10 15

Pro Cys

<210> 18

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 18

Cys Gly Pro Pro Cys Ala Thr Phe Glu Glu Ala Lys Ser Asn Gln Gly  
 1 5 10 15

Pro Cys

<210> 19

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 19

Glu Thr Lys Lys Glu Asn Ser Phe Glu Met Gln Lys Gly Asp Gln Asn  
 1 5 10 15

Pro Gln

<210> 20

<211> 18

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence:CD40-binding  
Trxpep

<400> 20

Cys	Gly	Pro	Gly	Arg	Glu	Ser	Arg	Gly	Arg	Cys	Tyr	Thr	Pro	Ser	Gly
1				5				10						15	

Pro Cys

<210> 21

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
Trxpep

<400> 21

Thr	Asp	Pro	Ser	Gln	Val	Ser	His	Gly	Thr	Gly	Phe	Thr	Ser	Phe	Gly
1				5				10						15	

Leu Leu

<210> 22

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
Trxpep

<400> 22

Cys	Gly	Pro	Asn	Thr	Pro	Asp	Glu	Glu	Met	Ala	Pro	Gln	Ala	Pro	Gly
1				5				10						15	

Pro Cys

<210> 23

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
Trxpep

<400> 23

Cys	Gly	Pro	Val	Val	His	Ile	Lys	Thr	Asn	Glu	Gln	Ala	Ala	Pro	Gly
1				5				10						15	

Pro Cys

<210> 24  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding  
 Trxpep

<400> 24

Cys Gly Pro Val Ala Glu Glu Pro Ala Gly Gly Ala Gly Arg Pro Gly  
 1 5 10 15

Pro Cys

<210> 25  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Her-2/neu  
 Tyr1068 phosphorylation substrate peptide

<400> 25

Pro Val Pro Glu Tyr Ile Asn Gln Ser  
 1 5

<210> 26  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:short flexible  
 linker

<400> 26

Pro Gly Ser Gly Gly  
 1 5